

NAPA(R) Super Bonder(R) Super Glue
21124

I. PRODUCT IDENTIFICATION

Product Name: NAPA(R) Super Bonder(R) Super Glue
Item No.: 21124
Part No.: 49411
Product Use: Adhesive/Sealant
Formula No.: Not applicable

II. HAZARDOUS INGREDIENTS

Ingredients	% by Weight	CAS No.
Ethyl cyanoacrylate	90-95	7085-85-0
Poly (methyl methacrylate)	3-5	9011-14-7
HYDROQUINONE	1-3	0123-31-9

III. PHYSICAL DATA

Physical

State/Appearance: Clear liquid
Odour & Odour Threshold: Sharp, irritating
Specific Gravity: 1.05 at 75°F
Vapour Pressure: Less than 0.2mm at 75°F
Vapour Density: Approximately 3
Evaporation Rate:
(Ether = 1) Not Available
Boiling Point: Greater than 300°F
Freezing Point: Not Available
Volatile Organic Compound
(EPA Method 24) Less than 20 g/l (California SCAQMD method 316B)
pH: Not Applicable
Coefficient of
water/oil distribution: Not Available

IV. FIRE OR EXPLOSIVE HAZARD

Conditions

of Flammability: None
Means of Extinction: Carbon dioxide, Foam, Dry Chemical
Flashpoint (Method): 150 - 200 °F Method: Tag Closed Cup
Upper Flammable Limit: Not Applicable
Lower Flammable Limit: Not Applicable
Auto-Ignition
Temperature: Not Available
Hazardous
Combustion Products: Irritating organic fragments
Explosion Data - Sensiti-
vity to Static Discharge: Not Applicable

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V. REACTIVITY DATA

Conditions causing
Chemical Instability: None
Substances with which
the Product is Unstable: Polymerized by contact with water, alcohols,
amines, or alkalies.
Conditions of Reactivity: None
Hazardous
Decomposition Products: None

VI. TOXICOLOGICAL PRODUCTS

Route(s) of Entry: Not Available
Existing Conditions
Aggravated by Exposure: None Known
Toxicity Information: (See Effects of Acute Exposure to Product)
Effects of Acute
Exposure to Product: Skin contact may cause burns.
Bonds skin rapidly and strongly.
Skin and eye irritant.
Estimated oral LD50 more than 5000mg/kg.
Estimated dermal LD 50 more than 2000 mg/kg.
Effects of Chronic
Exposure to Product:

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Ethyl cyanoacrylate	ALG IRR RES	NO	NO	NO
Poly (methyl methacrylate)	IRR	NO	N/A	NO
HYDROQUINONE	AC3 BLO BNM CNS EYE IMM IRR MUT SKI	NO	N/A	NO

Abbreviations

N/A Not Applicable	AC3 ACGIH animal carcinogen.
ALG Allergen	BLO Blood
BNM Bone Marrow	CNS Central nervous system
EYE Eyes	IMM Immune system
IRR Irritant	MUT Mutagen
RES Respiratory	SKI Skin

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VI. TOXICOLOGICAL PRODUCTS

(continued)

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate	0.2 ppm TWA	None	None
HYDROQUINONE	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA 4 mg/m3 STEL

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
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Ingredients for which no Exposure Limits have been established are not listed above.

Irritancy of Product: Vapor is irritating to eyes and mucous membranes above TLV. Exposure to vapors above the established limits may cause symptoms of non-allergic asthma.

Sensitization to Product: (See Irritancy of Product)
Carcinogenicity: (See Effects of Chronic Exposure to Product)
Reproductive Toxicity: (See Effects of Chronic Exposure to Product)
Teratogenicity: (See Effects of Chronic Exposure to Product)
Mutagenicity: (See Effects of Chronic Exposure to Product)
Name of Toxicologically Synergistic Products: Not Available
WHMIS Hazard Class: B.3, D.2.A, D.2.B

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes: Safety glasses or goggles.
Skin: Nitrile or polyethylene gloves and aprons.
Do not use cotton.

Ventilation: See supplemental page for additional information.
Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV

Engineering Controls: See "Ventilation" above

Spill or Leak Procedures: Flood with water to polymerize. Soak up with an inert absorbent.

Waste Disposal: Polymerize as above. Landfill or incinerate in accordance with Canadian and local regulations.

(Contact Loctite Canada's Customer Service at 905-814-6511 for Shelf Life Information)

Handling Procedures and Equipment: Store below 75 deg. F.

Special Handling Information: Avoid contact with skin and eyes. Avoid breathing of vapors

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VIII. FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Soak in warm water. See supplemental page for emergency procedures.
Eye Contact: Flush with water. See supplemental page for emergency procedures.

IX. SHIPPING INFORMATION

Canadian Transportation
of Dangerous Goods:

Shipping Name NOT REGULATED
Classification NOT REGULATED
Product ID Number NONE

ICAO/IATA:

Proper Shipping Name Unrestricted (Not more than one pint);
Aviation regulated liquid, n.o.s., (Cyanoacrylate Ester) (More than one pint)
Class or Division Unrestricted (Not more than one pint);
Class 9 (More than one pint)
UN or ID Number None (Not more than one pint)
UN 3334 (More than one pint)

X. PREPARATION INFORMATION

Prepared By: Stephen Repetto
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Emergency Phone Number: (860) 571-5100
Revision Date: December 15, 2001 Revision: 0025

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INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF
HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION

First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

EYELID TO EYELID OR EYEBALL ADHESION

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips

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with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn.

Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY

It should never be necessary to use such a drastic method to separate accidentally bonded skin.